CLAIMS

- determinant and a sulfated determinant, at least one of these determinants being positioned at a non-naturally occurring site on said molecule.
- 2. The organic molecule of claim 1, wherein said molecule contains multiple sialyl-Le^x determinants or multiple sulfated determinants.
 - 3. The organia molecule of claim 1, wherein said molecule is soluble.
- 4. The organic molecule of claim 1, wherein said sulfated determinant is attached to a sequence consisting essentially of amino acids 21-57 of Fig. 8A.
- 5. The organic molecule of claim 4, wherein said sulfated determinant is attached to a sequence consisting essentially of amino acids 38-57 of Fig. 8A.
- 6. The organic molecule of claim 1, wherein said sulfated determinant is attached to a sequence consisting essentially of TGDYYEDSYEDIS (SEQ ID NO: 15).
- 7. The organic molecule of claims 1 or 5, wherein said molecule comprises α_1 -acid glycoprotein (AGP).
- 8. The organic molecule of claims 1 or 5, wherein said molecule comprises an antibody molecule.



9. The organic molecule of claims 5 or 6, wherein said molecule further comprises at least one copy of a repeat sequence ATEAQTTPPA (SEQ ID NO: 1) or MATNSLETSTGTSGPPVT (SEQ ID NO: 2).

A purified nucleic acid encoding an organic molecule of claim 1.

11. The purified nucleic acid of claim 10, wherein said nucleic acid further encodes α_1 -acid glycoprotein (AGP).

12. The purified nucleic acid of claim 10, wherein said nucleic acid further peodes an antibody molecule.

- 13. A vector comprising the nucleic acid of claim 10.
- 14. A cell comprising the purified nucleic acid of claim 10.
- 15. A method of inhibiting the binding of a cell bearing a P-selectin protein to a molecule or cell bearing a sialyl-Le^x determinant and a sulfated determinant, said method comprising contacting said P-selectin protein-bearing cell with an organic molecule of claim 1.
- 16. The method of claim 15, wherein said organic molecule also inhibits the binding of a cell bearing an B-selectin protein to a molecule or cell bearing a sialyl-Le^x determinant.

- 17. A method of reducing inflammation in a mammal comprising administering to said mammal a therapeutically-effective amount of an organic molecule of claim 1.
- 18. A method for reducing or protecting a mammal against an extravasation-dependent adverse reaction, said method comprising administering to said mammal a therapeutically-effective amount of an organic molecule of claim 1.
- 19. The method of claim 18, wherein said extravasation-dependent adverse reaction is extravasation-dependent organ damage or clotting associated with adult respiratory distress syndrome, glomerular nephritis, or ischemic myocardial injury.
- 20. A method for reducing or protecting a mammal against an adverse immune reaction, said method comprising administering to said mammal a therapeutically-effective amount of an organic molecule of claim 1.
- 21. The method of claim 20, wherein said adverse immune reaction is induced by a microbial factor.
- 22. The method of claim 20, wherein said adverse immune reaction is induced by a host factor.
- 23. The method of claim 20, wherein said adverse immune reaction is septic shock or septicemia.

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